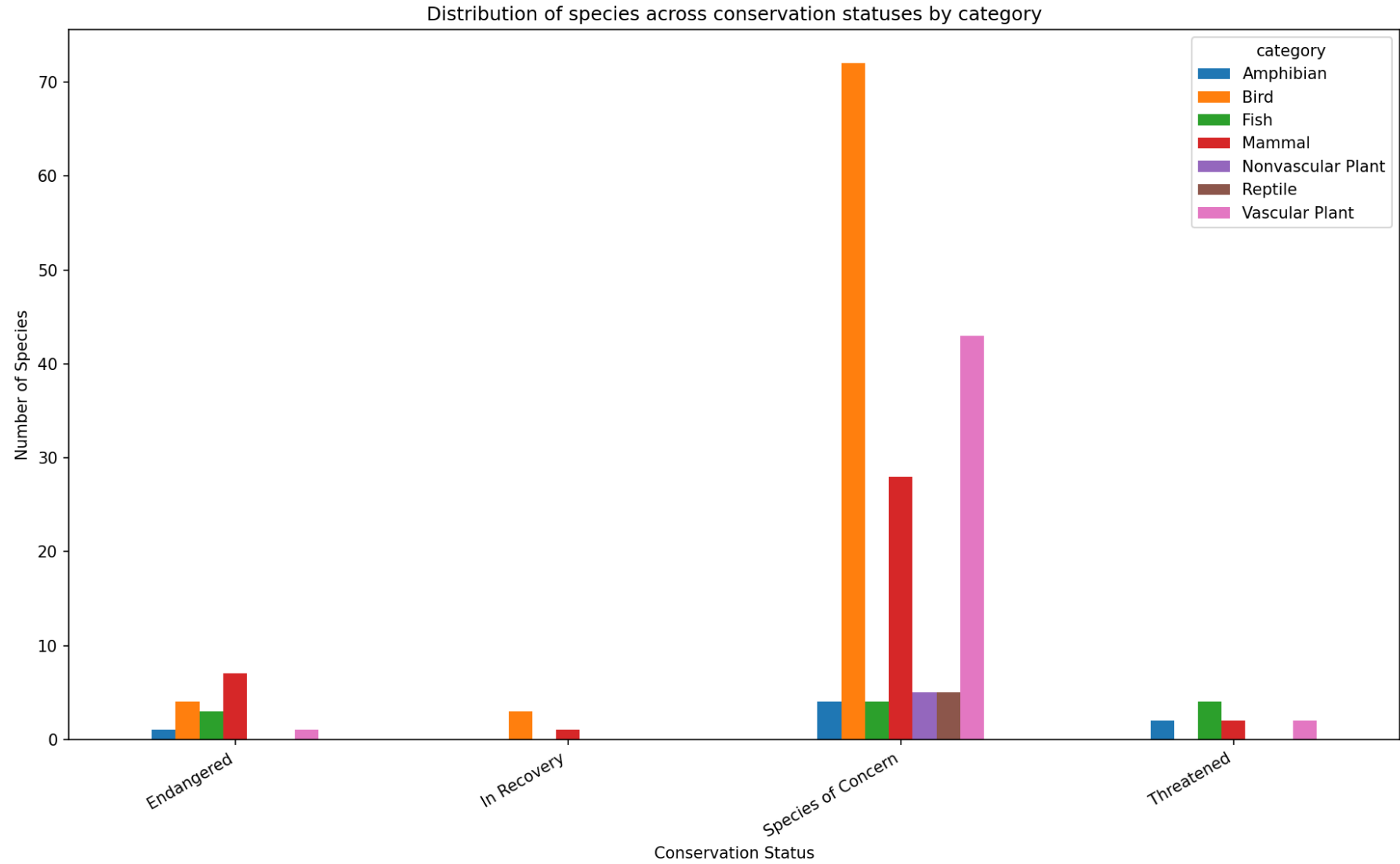




# Distribution of species across conservation statuses and US national parks

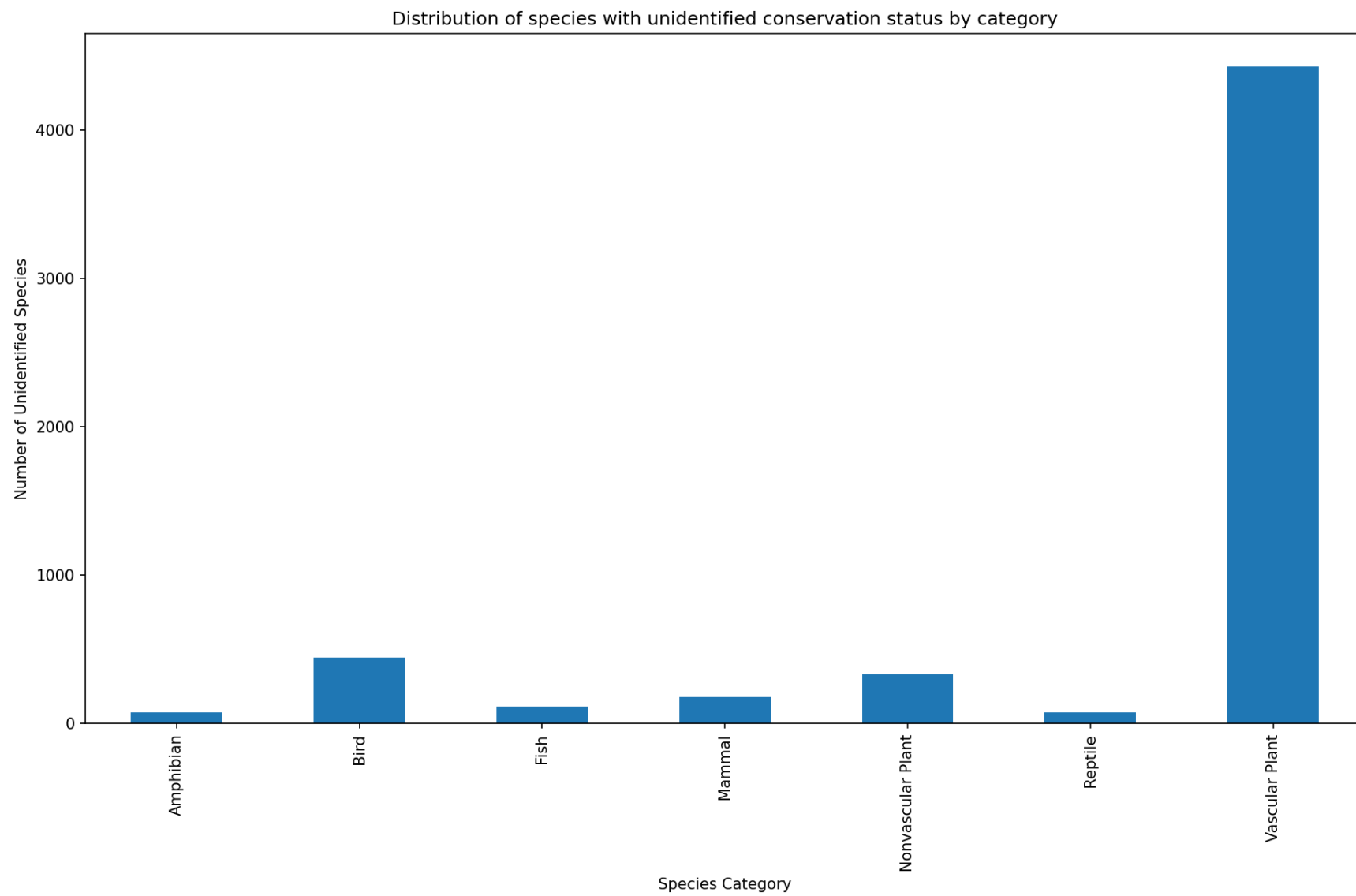
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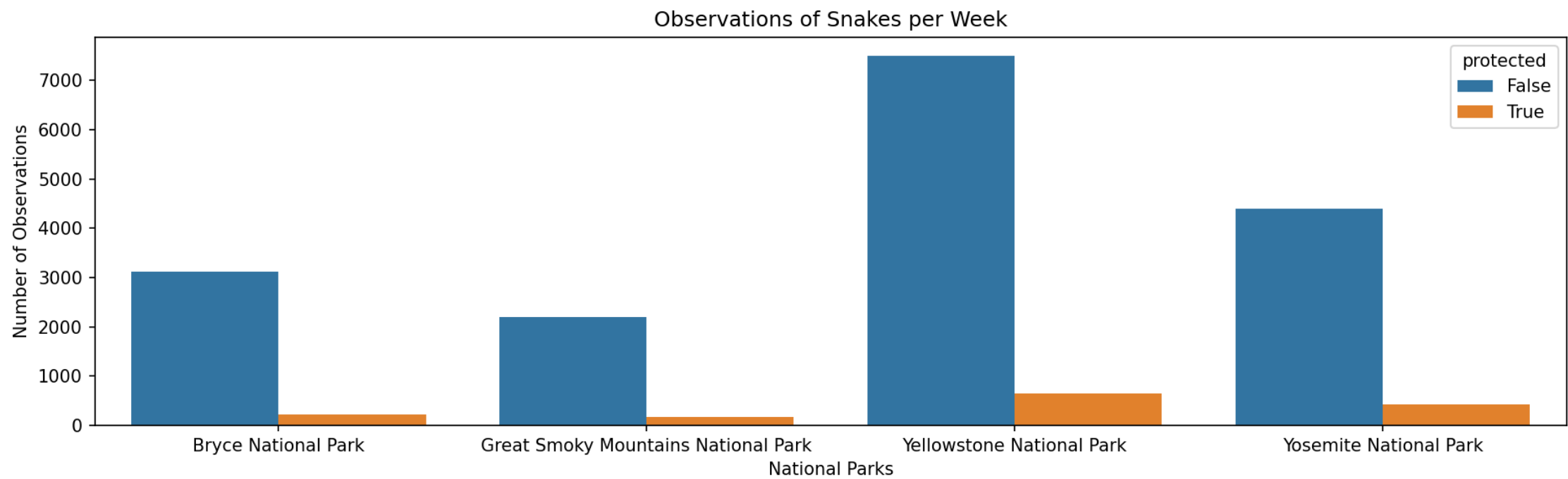
# Analysis of Figure 1

- Excluding SM values, most species fall in the 'Species of Concern' category, of which Birds have the highest number
- From the most concerning ('Endangered' category), Mammalia have the highest number
- Birds and Mammals are the only species which have 'In Recovery' statuses
- The least listed and having possibly a lot of missing values are Fish, Amphibians, Reptiles, and Nonvascular plants



# Analysis of Figure 2

- This figure suggests that the vascular plants by far have the highest number of species with no identified conservation status
- Birds have the highest number of SM values from the animalia kingdom
- This missing values can be structurally missing due to these species having no concern for conservation or have not been studied



# Analysis of Figure 3

- This figure observes the distribution of snake species with an 'Unidentified' status who are deemed as not protected (protected=False) and snakes with other designated conservation statuses that are protected (protected=True) in different US national parks (Bryce, Great Smoky Mountains, Yellowstone, Yosemite)
- Most snake species listed are found in Yellowstone, but do not have a conservation status
- Highest number of protected snake species are found in Yellowstone and Yosemite

# Conclusions

- These figures suggest a large portion of data missing
- The assumption is that the missing values are structural due to those without conservation status have not been studied or protected with any signs of concern
- Many species have 'Species of Concern' status, most of them Birds and Vascular plants, indicating a need to take action before these species gain a higher risk status
- Mammalia, Fish and Birds need the most attention as they have highest number amongst animalia for 'Endangered' status
- A need for more funding to rehabilitation and recovery centers as very few species have 'In Recovery' status
- A large number of non-protected species (such as snakes) are found in US national parks, with a very small fraction with protection status